A.N.A.R.T.S. News
Bulletin 1399 for 4th of June 2006

Views expressed in
this news bulletin are not necessarily

those of the Broadcast Officer, the Relay
Officers, or of

the Society.

Please note that if
you miss our broadcast at any time,

you can get a copy by looking on your local
Packet Radio

BBS
under the heading rtty at vknet. You can also obtain

a copy from the Internet by going to URL:

http://www.anarts.com.au.

Items in this
broadcast include

1. Cols column

2. IPS REPORT

3. VK2SG RTTY DX
report

4. OPDX News

5. Anarts
Information

Col's Column

Propagation
of Radio Waves.

Critical Frequency

The maximum electron
density of an ionospheric layer is commonly expressed

in terms of the 'Critical Frequency'. This is
the highest frequency that

the layer can return to earth when the wave
enters with vertical incidence.

The critical
frequency corresponds to a refractive index of zero at the

point of maximum electron density.

When the frequency

of the Sky Wave is less than the critical value, the

layer returns the wave to earth for all angles of
incidence, including

the vertical.

Each layer of the
ionosphere has its own critical frequency th
at

corresponds to its maximum electron density, and since
the electron

density of the layers goes through diurnal and
seasonal changes, the

critical frequency does likewise.

Since the daytime F2
and night-time F layers have the greatest density,

these layers have the highest critical frequency
and therefore

determine whether or not a sky wave of any particular
frequency will

be refracted back to earth when the wave
strikes the ionosphere with

vertical incidence.

Attenuation
of Radio Waves by the ionosphere.

A radio wave
entering the ionosphere exerts a force on the free electrons

which sets them in motion. Thus the energy
contained in the radio wave is

in part transferred into kinetic energy (energy
of motion) of the electrons.

If the free
electrons do not collide with gas molecules and other ions,

all of this energy is reconverted into
electromagnetic energy, and the

wave continues to be propagated with undiminished
intensity. However,

if the moving electrons collide with other
particles, part of their

energy is lost and an attenuation of the intensity
of the wave results.

More on this
attenuation next week

Please remember that
ANARTS WW RTTY Contest takes place next week,

I hope you are able
to take part in the contest, at least give a few

QSOs and fly the Aussie Flag. There are many,
many DX stations

waiting to work you.

73's
Col VK2CTD.

DID YOU KNOW

Did you know that
ANARTS uses the CABRILLO format for processing logs

received from Contesters????

Once in Cabrillo
format, a log can be fully processed for such items as

Total score, Points
scored for each QSO, Checks each QSO for Country

and other Multiple scoring, Checks for duplicate
QSO's, and also Checks

for the time Contesters spent working the
Contest. This is only a

small part of what the Cabrillo Log Checking program
does, there are

many other things in a log that it checks.

If you wish to take
part in this years ANARTS WW RTTY CONTEST, please

check out the ANARTS Cabrillo Log Format at
http://www.anarts.com.au

You can also
download Cabrillo Log converters, do a search on google.

Colin VK2CTD

IPS Weekly Solar and
Geophysical Report 26 May/1 Jun

SUMMARY

Date 26 27
28 29 30
31 01

10cm flux 82 83
85 81 80
78 77

AFr index
1 1 5
1 7 4 8 est

Aaus index 3
2 5 2
6 3 6 est

T index 24 30
29 25 28 28 34

Solar flare activity
was very low all week.

Geomagnetic activity
observed for the Australian Region was quiet on

26/29th
and 31st and quiet to unsettled on 30th and 1st.

Southern Australian
Ionospheric F2 critical frequencies were mostly

near predicted on 26th near predicted to 20
percent enhanced on 27th

near predicted to 30 percent enhanced on 28/30th
slightly above

predicted values on 31st and enhanced to 15 percent on
1st. Spread F was reported on 28/30th and Sporadic E was reported on 28th.

Forecast for 2/8th
Jun

Solar activity
should be low.

Geomagnetic activity
should be unsettled to active on 2/3rd Jun

active on 7/8th and quiet to unsettled on other
days.

Frequencies should
be briefly depressed after local dawn 3/8th Jun

and near predicted monthly values on other days.

courtesy of the IPS Radio and Space Services

summary by Pat VK2JPA ANARTS Broadcast Officer

VK2SG RTTY DX NOTES
WEEKENDING 1ST JUN

Our
thanks this week to AA5AU DJ3IW GU0SUP UT5RP K3GP OH2AQ DXSummit.

Bandpass:

Friday 26

0257-14082 S79RS

0302-14083 VQ9NL

0318-14080 TI2CCC

0325-14082 ES3RFL

0334-14085 DR2006K

0358-14087 KP4JRS

0456-14085 EW1KP

0508-14083 LZ06KM

0634-14082 KP4AH

0649-14084 IM0MBP

0747-14085 OX3WS

0752-14983 IF9FI

0758-18100 JW4GHA

0844 18100 TF3PPN

0913-18108 HZ1IK

0935-14081 EX2M

1132-14086 OX3WS

1135-14085 JW0HZ

1233-14092 VR2XMT

1248-14080 KP4ED

1251-14086 YB1AD

1331-14083 XE3ISS

1406-24921
IS0/IK4LHC

1437-14085 E20WXA

1438-14089 YB0JIV

1500-14081 BX4AQ

1543-14085 TF3GC

1554-14078 TF3AO

1557-14080 BD7KLO

1641-10141 DQ2006F

1754-14087 LZ06KM

1818-14082 RZ9AP

1824-14084 XU7ABN

1852-21060 HC1FG

1856-14089 C31BO

2054-14081 TI8CBT

2118-14081 VK9NI

2122-10143 CN8KD

2158-21080 HC2NGF

2235-14081 CU5AM

2251-14093 SV9CVY

2330-14082 HK6PSG

2355-14080 FM/F5OIU

Saturday 27

0002--7039 9A150NT

0444-10135 KP4JRS

0653-14084 DR2006K

0756-18107 VR2XMT

0812-10145 DQ2006K

0913-14085 IF9FI

0928-21087 3B9FR

1227-14085 7L1WII

1242-14088 IS0AFM

1528-18104 DR2006K

1553-18105 VR2XMT

1616-21087 EC8CID

1620-18108 TR8CA

1754-10139 DR2006K

2336-14083 XU7ABN

Sunday 28

0636-14084 OX3WS

0640-14097 9H4C

0715-18099 SU9FL

0938-14081 EG8FAS

0957-14081 ER3MM

1007-14086 IS0QPA

1223=18105 ED8CID

1242-18104 PZ5RA

1253-21080 DV1JM

1310-14087 BD7KLO

1400-14083 ED4RL

1820==3585 DR2006S

1856-14092 EG8FAS

1910=18104 S79RS

2055-10115 DR2006N

Monday 29

0032-18096 KH6ND/KH5

0050-18104 YE6P

0545-14085 UT7CWW

0733-14090 KH6ND/KH5

0747-14087 UN8LF

0857-14084 DQ2006N

0933-14082 TM2CV

1049-18103 UN8LF

1107-14105 P29SS

1140-14088 HZ1NH

1227-14082 DQ2006X

1252-18107 VR2XMT

1253-14085 VI9NI

1326-14089 VR2XLN

1329-18105 JW4GHA

1338-14082 S79RS

1413-14080 XX9BB

1418-18106 ED8CID

1428-14086 YE6P

1429-14087 VR2XMT

1430-18108 HZ1IK

1433-14084 E20WXA

1444-18103 KP4SQ

1448-18100 DS5RYB

1510-18109 TI8CBT

1605-14085 TF3GC

1628-14084 OP7B

1631-14083 TF3PPN

1639-14083 UA0LH

1726-14085 E20WXA

1741-14084 DQ2006A

1743-14088 XX9BB

1744-14081 XU7ABN

1801-14090 J5UAP

1802-14082 S79RS

1833-14094 ED8CID

1839-14089 CN2WW

1840-14080 CN8KD

1849-14078 EX2M

1855-14095 OY/PA2AM

1953-14085 6Y5/NU9N

1954-14087 CO2IZ

2017-14085 OX3WS

2025-14087 4K8F

2034-14084 AL7R

2106-14092 TF3IGN

2129-14085 HK4QHD

2158-14082 HK6DOS

2212-14086 KP4FKN

2218-14079 C31BO

2245-14082 CU2/DL6OE

Tuesday 30

0227-18118 VI9NI

0306-14086 CX4SS

0323-14083 S79RS

0503-10137 KP4JRS

0516-10133 VI9NI

0540-14088 ED8CID

0700 14083 OY/PA2AM

0747-14083 OY/PA0VHA

0839-14080 DQ2006Y

0925-14087 OY/PA2A

1020-10141 VI9NI

1252-14083 YB1AD

1351-14085 E20WXA

1417-14091 ED8CID

1444-14085 TI8CBT

1513-14086 UN8PIM

151814089 LY8O

1543-14087 VR2XMT

1546-14090 KP4FKN

1632-14086 TF3GC

1737-14085 TR8CA

1830-14087 HL5BMX

1845-21083 CX4SS

1901-14086 OX3JZ

1912-14089 OY/PA2AM

2043-14088 OP0J

2058-14089 OY/PA0VHA

2105-14085 OX3WS

2152-10140 CN8NK

2244-21083 VI9NI

Wednesday 31

0352-21082 VI9NI

0709-14088 OY2/PA2AM

0926-14085 DR50BUND

1227-14087 DQ2006V

1230-14084 BD7KLO

1302-14087 UN8PIM

1322-14083 OY/PA0VHA

1342-14085 TF3GC

1421-14089 VR2XMT

1440-14086 DR50BUND

1459-14084 4L4KK

1503-24920 HZ1IK

1504-14088 BX4AN

1527-14086 OY/PA0VPA

1537-14082
HI8/IW2OAZ

1626-14087 JT1CO

1717-14086 OY/PA2AM

1731-21082 J6UAP

1732-14083 DQ2006I

1824-21084 CX4SS

1834-10139 J5UAP

1836-14084
HI8/IW2OAZ

1839-10137 YL2TW

1928-14083 EI6HBT

2021-10141 UN7PW

2025-14082 VI9NI

2104-14085 CX4SS

2134-14084 CP6UA

2142-14089 KP9FKN

2307-14084 OX3WS

2334-14088 ZK1YAN

Thursday 01

0001-14078 KP4JRS

0152-14083 KP4SQ

0227-14081 CX4SS

0256-14081 TI2TCC

0347-14086 CP6UA

0454-14086 CO2IZ

0633-14088 UX0FY

0749-14086 DQ2006N

0750-14084 VI9NI

0815-14083 OY/PA4VHA

1247-14084
HI8/IW2OAZ

1405-21071 5R8FL

1406-14080 BD7KLO

1419-14085 OX3IZ

1430-21084 CX4SS

1440-14085 9H4CM

1633-14087 TR8CA

1702-14089 HZ1IK

1740-10103 VI9NI

1744-14087 CN8YZ

1841-14090 FG5FI

1923-14085 9M6XRO

1927-14086 TI8CBT

2014--7041 OY/PA0VHA

2052-14082 HC5T

2106-14078 XE1ISS

Note of interest:

AMERICAN SAMOA, 5W0. Look for K8AQM N8CC KG8CO JF3MYU they will
be on

Jul
13/31 on 160-30m CW SSB digital, perhaps satellite.

PERU, HH. Ulrich DL2AH will be operating as
OAx/DL2AH from OA3 OA2 OA1

possibly OA7/8 40-10m SSB maybe RTTY. QSL via DARC Buro or direct.

You can also
subscribe to the digital-dx reflector - send an

email message to majordomo
at mla.nifty.ne.jp as follows

Subject (blank)
Message Body subscribe digital-dx

For next weeks
bulletin send your bandpass and notes of interest to

Goetz DJ3IW

Gl de DX2 Luciano
I5FLN

The Ohio/Penn DX
Bulletin No. 760 - excerpts

8R, GUYANA

Craig AH8DX will be
active as 8R1EA during the CQWW DX SSB Contest Oct

28-29
as a Single-Op/All-Band entry.
Look for RTTY activity before and

after the contest. QSL via
AH8DX.

B1, CHINA

A group from Texas is going to be
active with members of the Chinese

Radio Sports
Association from their club station 'B1Z' during the 2006

CQWW
SSB Contest. Hopefully
more details will be forthcoming.

DXCC NEWS

Looks like a new
DXCC entity is on the horizon. Montenegrins voted last

week to end its union with Serbia. It
would appear that Montenegro
will

probably be added to the DXCC List as a new entity.
Stay tuned for more

details.

Bill Moore NC1L ARRL
DXCC Branch Manager informs OPDX that the following

operations are approved for DXCC credit

4W6AAB - Timor-Leste
Current operation effective May 22 06

6O0M - Somalia
Operation Apr 7-24 06

A6/OD5TX - United Arab Emirates
Operation Oct 5/Nov 5 05

HN0Z - Iraq Operation
Mar 27-28 04 Operation May 29-30 04

J5DOT - Guinea-Bissau
Operation Apr 25/May 5 06

S01R - Western Sahara Operation Apr 11-21 06

TT8WL - Chad Nov 19
1996/Mar 8 1997

YI9HU - Iraq Operation
May 18/Jun 5 05

YI9NS - Iraq Operation
Jan 5/Mar 28 06

ZV0F - Fernando de Noronha Operation Mar 30/Apr 4 06

DXCC FEES GOING
UP...The ARRL DXCC Desk has announced DXCC program fees

will rise slightly when a new awards fee schedule
goes into effect Jul 1.

The fee for a basic
DXCC application (including certificate and pin for

initial applications only, 120 QSO maximum) and for
first endorsement

applications within a year will increase to 12USD for
ARRL members and

to 22USD for foreign nonmembers.
Second and subsequent endorsements (120

QSO maximum) within
a year will be 22USD for ARRL members and 32USD for

foreign nonmembers. The
10USD fee for a basic DXCC application (120-credit

maximum) was established in 1990 and the current
overall fee schedule has

been in effect since 1998.

E51, COOK ISLANDS

Victor ZK1CG/ZK1USA
reports that as of Jun 1st the ZK1 prefix will

change to a new prefix E51. He will try and be on June
1st with his

new callsign E51CG and later with E51USA from
South Cooks.

FS, SAINT MARTIN

Craig AH8DX will be
active as FS/AH8DX during the CQWW CW Contest as a

Single-Op/All-Band
entry. Look for RTTY
activity before and after the

contest. QSL via AH8DX.

IOTA NEWS

AS-008. Operators JM1VQJ JO1IRO and JF1IZM will be
active as homecall/1 from

To
Island (JIIA AS-008-013) JA1 North Izu Group from Jun 2-5. QSL via their

home callsigns, direct
or by the bureau.

EU-124. Glyn GW0ANA informs OPDX that he will be
mounting a small trip to

Flatholm Island Jun 3/4. He will be involved in a TV documentary on
Marconi.

So he will be going
live calling CQ from Flatholm Island
during the filming

of the documentary on 'Ham Radio'. Glyn states,
'So if you guys would care

to call me it would be most helpful for the
documentary.' His callsign on

the island will be GW4BRS/P. QSL via GW0ANA.

EU-174. Operators Laci/HA0HW Tomi/HA4DX and Ivan (Johny)/LZ1PJ will be

going to Skala Rachoni (KN20HS) Thassos Island Greece
May 27/Jun 5th.

Activity will be on
HF and 6M with operations on CW SSB RTTY and PSK31.

NA-144. Operators Terry/W6WTG Larry/KF6JOQ and
Mark/KG6ZBL will be active

from Santa Cruz Island (USI CA-012S Santa Barbara County Ca)
Jun 9-11th.

They will be using
the special callsign W6C. Activity will be on 14260

kHz (+/-), 50.130 MHz (+/-) and also 144.210 MHz
SSB. QSL via N2OWL. More

information is available at: http://www.w6wtg.com

OY, FAROE ISLANDS

Operators Wim/PA2AM
Steve/PA2A Hans/PA0VHA and Martin/PA2VMA will be on a

holiday trip to Eysturoy
Faroe Islands (EU-018) May 29/Jun 8. Look for them

to be signing OY/homecall.
Activity will be on all bands CW SSB PSK31 and

RTTY. QSL all callsigns
direct to PA0VHA (QRZ.com)

PJ2, NETHERLANDS ANTILLES

Members of the
Caribbean Contesting Consortium (CCC) will activate Signal

Point
Station on Curacao. Operators Marty/W1MD Scott/W4PA Helmut/DF7ZS

Steve/N8BJQ and
Geoff/W0CG will be active as PJ2T during the CQWW DX SSB

Contest as a
Multi-Single entry, possibly a Multi-2 if the team increases.

QSL
via N9AG.

PJ4, NETHERLANDS ANTILLES

Look for Glen K0JGH
to be active as PJ4/K0JGH from Bonaire, May
31/Jun 8.

He will be there
with his XYL Pamela N0ICF. Glen will operate SSB CW and

RTTY
on a casual schedule. QSL via his home callsign K0JGH.

SPECIAL EVENT

The Texas DX Society
(TDXS) and friends will be celebrating the 20th

anniversary of the Great Armadillo Run of 1986 with
special event station

K7A. The operation
and reunion will be held in Virginia City Nevada

(Storey County)
at the QTH of K5RC.
Operations will be over the Field Day

weekend Jun 24-25.

TK, CORSICA

Gerry IZ1DSH will be
active as TK/IZ1DSH from Porto Vecchio Aug 3-15.

Activity will be on
40/20M SSB. QSL via his home callsign or by the ARI

Bureau.

VI9, NORFOLK ISLAND

The VI9NI team is
now up and active until Jun 21. A press release by Bill

Horner VK4FW states
that there have been major problems with gale force

winds since their arrival. However all operators
are in good health and

they do have all the antennas up. Bill also
mentions that their Internet

connection there has failed them on at least 50 times.
They hope to change

things there to improve access/connection. He asks
that no one bothers to

send them Emails at this time. For more details
visit the following Web page

at http://odxg.org/expedition.html

The Society can be
contacted in the following ways

To Pat VK2JPA via patleeper at optusnet.com.au or

Col VK2CTD via
ctdavies at bigpond.net.au or

you can drop a line to PO Box 93 Toongabbie NSW
2146.

73’s for this week
from Pat VK2JPA broadcast Officer.

NNNN